Multimedia System for Audi/Volvo

User Manual

Precautions

- This product is electronic products, please follow the relevant national standard to install, operate, and use.
- It suitable for the MMI system feature upgrading of Audi A4, A5. Q5. (VOLVO XC60) car model.
- Please use the dedicated supplied cable to connect the components .
- In the installation, it should pay attention to prevent flattening, piercing, cutting the extend cable.
- Please power off the system when the installation, maintenance.
- Daily maintenance, repair by the manufacturer or professionals
- Please respect the regulations that using phones in motor vehicle.
- Visual parking system is not connected with the car brake , only for parking assistance, if appear accidents because of parking, manufacturers do not bear the legal responsibilities and obligations.
- To protect traffic safety and to avoid violation of traffic laws, drivers do not watch programs and operate the system while driving.
- Please read these instructions carefully and retain it for future reference before using this system. As result of the technology has improved, while the design specifications are subject to change without prior inform!

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User Manual

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System Instruction Product Features

The multimedia navigation system is a multi-functional, intelligent, navigation, audio and video entertainment multimedia system that research and desigh for Audi A4, A5. Q5. (VOLVO XC60) MMI system. It integrates smart touch control navigation, DVD, Bluetooth hands-free phone, digital TV and other multi-functional as a whole, and it can also be an external USB, CDC discs box, IPOD, reverse rear view camera and so on equipment, by the original vehicle MMI system to render images and voice of the corresponding function, and retain all the features of the original car.

Product Features

The system through the professional vehicle regulation design standards. It realized intelligent, professional, human manipulation of the multimedia navigation system.

Features	Instruction
MMI system upgrade as multimedia navigation system	The original car MMI system upgrade as multimedia navigation system, system make the "multimedia navigation console" as the core design idea, implementation of all control in the console, to retain the original car MMI system any function and control way; The original car MMI function: radio, CD, driving information; Upgrade multimedia navigation function: navigation, DVD, USB, IPOD, CDC, Bluetooth, digital TV, reverse rear view
HMI	The system adopts human 3D touch interface design，that makes the operation more intuitive and convenient
Full-function touch control	MMI and multimedia navigation touch switch can be realized;it can realize all functions of the multimedia navigation system by touching.
Sound processing	According to the car type, to select the AMI digital music interface or AUX audio interface access methods.
Opration Mode	Navigation can be run in the backstage, to realize watch entertainment programs on the screen, prompted the road tips in backstage; navigation, DVD, digital TV stand-alone, pre-screen view navigation can be realized, using the meter to display FM radio state to make FM radio, watching entertainment on the after-screen. Realize the three areas to work independently without disturbing each other!

System Instruction System Function

1. Navigation function:
   According to the destination that set by the user voluntarily, intelligent planning the best route, through the full names of the roads and traffic prompts marking voice broadcast, combined with high precision, high-definition graphics, smoother and quicker way to guide users to reach the destination.
2. DVD player:
   According to the owner using preferences, choose DVD disc playback, and playback the disc that under DVD level format
3. CMMB/ DVB-T digital TV: (optional)
   CMMB standard digital television system, the standard in different regions and obstacles block the case, the number of programs that receive TV channels, picture, sound quality is different (in some area, the broadcast system if the part-channel broadcast encryption, need to pay top-up the CA card in addition).
4. Bluetooth hands-free:
   Support hands-off calling or playing music function between the Bluetooth-enabled mobile phones with this system.
5. Full touch control:
   Through the touch screen to realize all functions of multimedia navigation system control.
6. Pre-after screen function:
   It can realize the pre-screen and after-screen display function image changes respectively, and can make navigation and entertainment segment with images and sound to meet the needs of different users.
7. Audio/video output:
   With AV output port for connecting external display.
8. Reverse rear view:
   Rear parking situation can be observed, so that make parking more secure, intuitive and fast.
9. Equipment expansion
   CDC discs box, USB storage device, IPOD device can be connected.

Note: Before using this machine firstly, please press RST key to reset this machine, the machine can work properly.

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Operating instruction System startup and close

1. Startup multimedia navigation system

When shutdown the original car MMI system , press the original car ON / OFF button (as shown below) to startup the original car MMI system, after MMI system is started, the multimedia navigation system will be started automatically.

10 seconds after the MMI system starts, "Light touch any place of the touch screen", can enter into the "Multimedia Navigation System"

Tips: The multimedia navigation system hereinafter referred to as "the system"

Multimedia System for Audi

Operating instruction System startup and close

2. System main console

In the "system" main console, touch each function buttons, you can enter the corresponding function page.

3. Switch between the “System” and original car “MMI system”

Enter into this system, light touch MMI button, to return original car MMI system.

After starting this system; light touch any place in the original car MMI system to return the “System”.

4. Close system

After closing ACC， it will close this system automatically.

Tips: The various states in the "multimedia navigation" system (such as DVD interface), to click "MMI" button to return to the original car MMI system; in the MMI system state, light touch any place to return to the system status before;

Do not use DVD, please click "NAVI" button in the main console state, the system will enter into navigation automatically when startup next time.

Note: Please "start external audio input" firstly before enter the system, the voice of the system to be involved in the original car audio systems.

See (page 22)

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Operating instruction Enter navigation

Enter navigation

After starting the system, enter into the system main console, through light touch the "NAVI" earth icon into the navigation device operation main interface, then click on the "Navigation" button to run the map

In other states (such as DVD state), click the "Navigation" button can also enter into the navigation directly

Navigation main interface

- Please put the map card insert into "GPS-SD" card slot properly before navigation operation
- When first use or replacement the map software, please set the map path. Through the "GPS Settings", the "run the navigation software automatically when starting" option is checked, the navigation software will be loaded directly in the next time that you start the system. (See map path settings page 8);

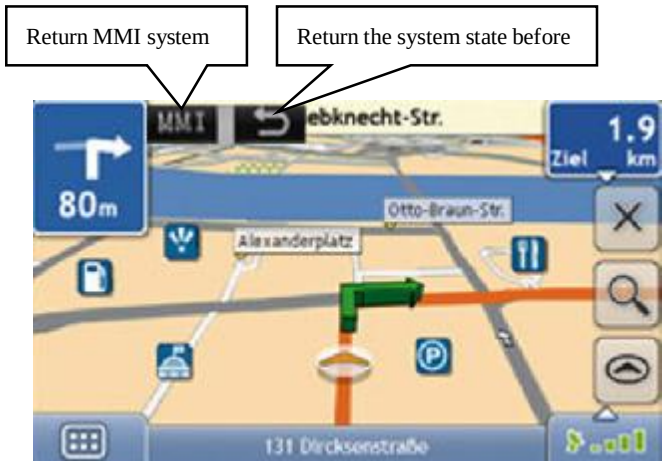
Multimedia System for Audi

Operating instruction Enter navigation

In "Navigation"" status, if need start other function, can click any place on the touch screen 2 seconds, the navigation page will pop-up " MMI " button on the upper left corner.

- Click " MMI " button, to return the original car MMI system
- Click " " button, to return to the "system status before"

If close the navigation software, please refer to the navigation software instructions, close the navigation software in the corresponding menu function, after closing the navigation software, the system will return to the navigator main interface automatically.



Tips:
1. Navigation software feature operation, please follow the "Map Guide" operating process, through the touch screen to perform the appropriate action.
2. The navigation system is compatible with multi-brand map, the version of the map contents, precautions, operating instructions, version upgrades and other related issues that you are using, please refer to the corresponding map's user guide.
3. When user configure map by himself, please follow the parameter in "Map allocation table" to configure mapping software.

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Operating instruction Navigation function operation

Enter settings interface

In the navigation main interface, click "Settings" button to enter system settings menu

As shown in figure:

Settings interface

- GPS Setting: set the used navigation software path for navigator, in the map configuration option to set the map software path, when enter into the navigation function in the main interface, it will use the user-specified navigation software.
- Volume Control: set the system volume size and the keypad tones.
- General Settings: set the system operation menu language
- GPS monitor: displays the current signal strength, longitude, latitude, altitude, speed and other information.
- Brightness Control: used to adjust the display brightness, contrast.
- Touch screen calibration: When position are not corrected, please calibrate the touch screen - Methods: click the cross centre by your fingers or touch pen, the cross will move to the next corner, follow the cross movement to the four corners of the box to the End (order as: Centre - the top left corner – the bottom left corner – the bottom right corner - the upper right corner), after showing OK, touch screen calibration is completed.
- Screen Adjustment: Adjust the screen display position.
- System Information: displays the navigation meter information, such as processor type, frequency, memory size, software version number, software release time and other information.

Operating instruction Navigation function operation

Map path setting

In system settings menu, click on “GPS Settings” can enter into the map path

As shown in figure:

The map will run automatically when system startup after mark √
GPS Set
\StorageCard\NaviOne\NaviOne.exe
Autorun GPS SW when startuping
Enter “File list” to select file

Click "File list" into the next menu to select the map implementation file, suffix as "*. EXE"

As shown in figure:

File list operation

- Click on the map to perform the file, then click "OK", save at last, you can complete the map path setting.
- Movie playing, music playing, photo playback, e-book list operation and the same with document.

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Operating instruction Navigation function operation

With navigation – music playing

In the GPS main interface, click on "Music Playing" button to enter the music playing function

As shown in figure:

- Select Playing File: firstly select the playing file before using (method: Firstly click on "Select Playing File" button, enter into "File List" and select the file you want to play, and then click "OK" to play)
- Playing Progress Bar: click or drag the slide block can jump directly to the appropriate location.
- Repeat Play: you can select single repeat, all repeat.
- Volume Adjustment: you can adjust the volume level.
- Track selection: you can click on the previous track, the next track or click the playing list to select track.

Overview: "Movies, books, pictures" playing function with music playback function is consistent, here is no longer spoke of.

Operating instruction DVD function operation

Enter DVD function

Enter into the system main console after system startup, through light touch "DVD" icon to enter the DVD function

Tips: Make sure that the machine has loaded the disc before click on the icon, when the disc is not loaded , it can not enter the DVD state.

When the disc is inserted, the machine will switch to "DVD" state automatically.

Enter into reading state, read the disc and play automatically

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Operating instruction DVD function operation

In playing state, click the screen center to pop up touch screen function buttons

Tips: Click the "MMI" button to enter into the original car MMI system; click on the "Navigation" button to enter directly into the navigation interface.

Click the " " button to return to "Multimedia Main Console"

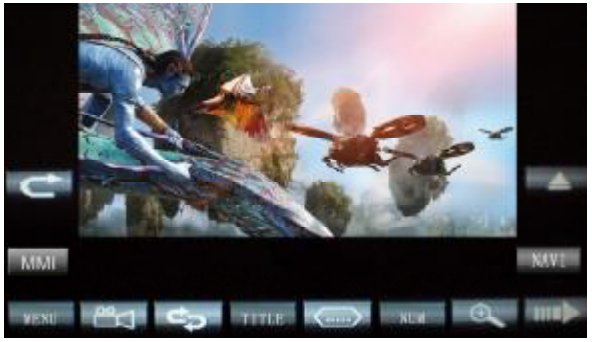
- Trough clicking on the corresponding function icon in the touch screen to perform the corresponding functions.
- DVD disc in the title menu or fragment selected mode, click directly the "screen" options on the screen to enter into the corresponding functions
- In playing state, click on the left side of the screen to perform the previous track; click on the right side of the screen to perform the next track.
- Click "Next Page" icon to enter the next the touch screens menu The following figure:

The touch menu can operate: Audio language switch, display, arrow keys, confirm key

Multimedia System for Audi

Operating instruction DVD function operation

- Click "Next Page" icon to enter the next the touch screens menu The following figure:



The touch menu can operate: Return to the title menu, angle, loop playback, subtitles, digital keys, zoom

Light touch the appropriate button to perform the appropriate function operation; after menu opening, there is no operation for 5 seconds, it will automatically hide

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Operating instruction USB/MP3 function operation

After starting the system to enter into the system main console, through light touch " USB/SD " icon to enter into the USB function

USB storage device (media contains MP3/WMA / JPEG multimedia document that the machine supported); the machine will automatically search all directories that store WMA/MP3/JPEG files, after search completed, it will automatically preferential enter into the first mp3 directory and play the first track in this directory (the cursor stops at "01:" location).

Playing interface features are as follows:

Playing MP3 **or** WMA **music file**

Playing JPG **photo file**

Playing MPEG, AVI video file

Key: Pop up key and DVD function

Tips: Click folder or track directly, then open or play the corresponding file.

Other operation is the same with DVD function operation

If not insert USB device, the “USB/SD” icon can not work.

Operating instruction Bluetooth operation

Enter the Bluetooth

After starting the system to enter into the system main console, through light touch "Bluetooth" icon to enter into the Bluetooth function

After the Bluetooth is connected OK, the "Bluetooth" small icon in the upper right corner of the main interface will light for a long time, after disconnect the connection, the "Bluetooth" small icon will light for a long time and flash.

Bluetooth interface

Tips: Click "MMI" button to enter into the original vehicle MMI system; click the "Navigation" button to enter directly into navigation interface, click the "Main Interface" button to return to "Multimedia console"

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Operating instruction Bluetooth operation

Bluetooth match

When using at the first time, please establish connection with the phone, method: Firstly click on the machine's "Match" icon on the phone→ open the Bluetooth function → select "New paired device" to automatically search → search to "CAR KIT" device and select OK → enter the password "0000" → press phone key to confirm → after match completed, accept the connection.

Dial, receive calls

After the Bluetooth connection OK, please press number key and then press the key to call; press the key to answer calls, press key to hang up calls

Click the "Switch" button can be realized switching between phone calls and Bluetooth calls

Playing music with Bluetooth

After Bluetooth is connected OK, please open the "Music Player" in the phone to play music, sound will be issued from the system; also can through the on the phone touch screen to select track.

Note: Due to different Bluetooth module that different brands mobile phones and different used software, some differences in the using of playing music mode and other functions, or even not compatible, please appreciate for your kindy understanding!

Operating instruction Digital TV function operation

Enter into digital TV (optional)

After starting the system to enter into the system main console, through light touch "DTV" icon to enter into the digital TV function

CMMB digital TV introduction

1. CMMB is China Mobile Multimedia Broadcasting, primarily for automotive, mobile phone, PDA and other small screen mobile devices to provide broadcast TV services
2. Providing digital television programming, integrated information and emergency broadcast services
3. The user can according to the inside machine "CA card serial number" to the local Radio and Television Bureau for payment.
4. Support the combination operating system of central and local, and have control system with encryption authorization controls, support uniform standards and uniform operation, to support users roaming the country.

Tips: Click "MMI" button to enter into the original car MMI system; click on the "Navigation" button to enter directly into the navigation interface; click the "MAIN" button to return to "multimedia console"

Note: If user used CMMB digital TV, please see "CMMB digital TV function operation"; If you used the DVB-T digital TV, please see the "DVB-T digital TV function operation."

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Operating instruction CMMB digital TV function operation

Automatic search

For the first time use or change area that need to automatically search

According to light touch the centre of the touch screen to pop-up digital TV operation button, and then touch the “OK” button on the left bottom of the touch screen to pop-up main menu.

As shown in figure:

Click the "Automatic Search" to automatically scan for stations. After searching, it will be automatically saved, and jump to 01 stations.

Radio swtich: After searching program, click the button on the top left corner of the screen to select up or down the station.

Also according to light touch the “OK” button on the left bottom of the touch screen, after pop-up menu, click on the network list, you can see the station name and directly select the station

Menu function:

Through light touch th center of the touch-screen to pop-up digital TV control button, then click "OK" button to enter the main menu functions

- Network List: Displays all received television programs, radio stations can be selected directly
- Program Guide: Displays upcoming Events Information
- Automatic Search: automatic scanning and storing radio
- Manual Search: select the scan radio frequency manually
- Emergency Broadcast: listen to emergency information (this feature requires sending information by local radio and television)
- Setting: Set the menu display time, transparency, system information, etc
- CA Card number: Displays the machine's CMMB "CA card serial number," according to this number for payment to the local Radio and Television Bureau

Note: CMMB standard digital television system in different areas, and obstacles such circumstances, the number of programs that to receive TV channels, picture, sound quality will be different, the region that have been encrypted need to pay for watching in addition.

Multimedia System for Audi

Operating instruction CMMB digital TV function operation

For the first time use or change area that need to automatically search

Method: Click “MENU” icon on the screen →Enter into menu and click “Digital TV” → Enter into next menu and click “Installation” → Then click “Area Search” to search automatically, exit after searching completed.(Please set the country and area before searching)

DVB-T playing photo

DVB-T settings main interface

Radio search interface

System configure interface

Program switch: After search program, click "CH + or CH-" button on the screen to select the channel up or down (also can click the "NUM" button to pop up the number keys, use the number keys directly to select channel)

Set the country and area- methods: click the "MENU" icon on the touch screen→ enter menu and then click on the "Digital TV" icon → enter the next menu and then click "Configuration" → enter the next menu and then click "System setup" → enter the setup menu and then click "Area" to set the region. (The receiving system receives the frequency range of each region, the bandwidth has been configured; Users only need to set up their own region and then automatic search)

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Operating instruction CDC function operation

Enter into CDC function

After starting the system to enter into the system main console, through light touch "CDC" icon to enter into the CDC function

Tips: Please use the CDC box which using the Sanyo communication protocol, and connected with the machine to use this function:

CDC operation interface:

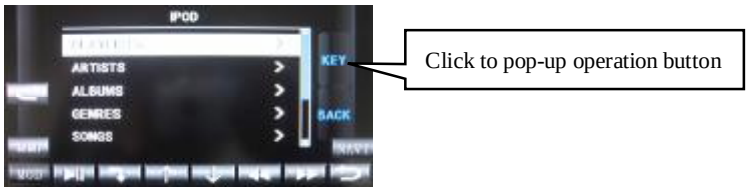
- Through light touch the corresponding button on the touch screen, operate the corresponding function; click the "MMI" button to enter into the original car MMI system; click on the "Navigation" button to enter directly into the navigation interface; click the "Return" icon to return to the "Multimedia Main Console "
- If connect CDC video, please connect the CDC's video output with the machine's CDC video input

Operating instruction IPOD function operation

Enter into IPOD function

After starting the system to enter into the system main console, through light touch "IPOD" icon to enter into the IPOD function

Tips: Please put the IPOD device properly inserted into the machine only before use this feature



Light touch "Mode" button to enter into IOPD video operation mode, click on the screen center can switch to the IPOD video (with the IPOD device video output can use this feature)

Other function operation similar to DVD function operation

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Operating instruction Other function operation

AV input function

- After starting the system to enter into the system main console, through light touch "AUX" icon to enter into the AV input function
- Please connect the external audio and video equipment properly before using this function.
- In AV input mode, click any place on the screen to return to the "Multimedia Console"

Reverse function

- Please connect the reverse line with reverse switch output, put the reverse rear view video output into the machine reversing video input
- When reversing, this machine will enter into the automatic reverse state
- To ensure the safety of parking, when reversing in any state, the system will automatically enter into reverse mode and turn off the system sounds.
- Reverse ways selection, see (p. 24): reverse rear view option is enabled, or use the original car reversing aid system
- When reverse rear view is enabled, display reverse rear view images in the reverse process, show the original car auxiliary parking information immediately after reversing completely, 8 seconds later back to the system state before.

Rear view camera image

Original car parking aid system interface

- When reverse rear view is disable, it will automatically open the original car's auxiliary parking system in reverse process, after reversing finished 8 seconds, the system state will return before;

Operating instruction Startup external audio input

Original car MMI control panel

AUX audio interface (usually in the center armrest storage box)

Put the navigation system audio cable insert into the AUX Interface

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Operating instruction Startup external audio input

Multimedia navigation system "Audio" intervention

in the original car MMI function state, press "MEDIA" button, then click "Playing Source" key to enter into the MMI multimedia page

Rotate MMI knob and select "AUX", then the display screen appears as "External sources has been started" page, (and the dashboard center display will also show "AUX" at the same time), the sound of multimedia navigation system can be input to the original car sound system.

Tips： double click "MEDIA" may also enter into "AUX" mode

Operating instruction system settings

After starting the system to enter into the system main console, through light touch the "Tools" button on the right buttom of the screen to enter into the system settings interface

As shown in figure:

- Time zone settings: It can be set as Europe, United States, Japan, Russia time zone (12 hour or 24 hour clock)
- Touch Screen calibration: you can enter into the touch screen to re-calibrate the touch screen when touch place calibration is not good.
- Time adjustment: Click the "+,-" button of the "hours" column to adjust the hours; click the "+,-" button of the "minutes" column to adjust the minutes.
- **Reversing:** Select whether to use reverse rear view (mark √ is enabled, do not mark √ is disabled); when not install reversing camera, please do not mark √.

  Tips: When you click the button on the screen does not work, please click the “Eject/close” key for 6 seconds on the machine panel to enter into the touch screen calibration interface to recalibrate the touch screen.

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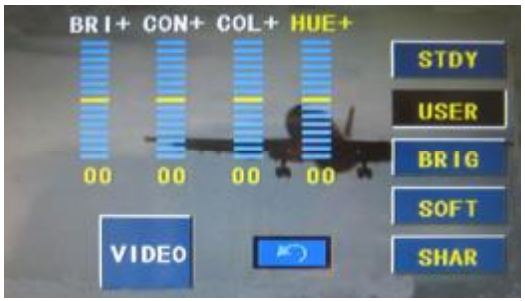
Operating instruction Image adjustment

In playing disc state, click the screen center to pop-up touch buttons

Click to enter into photo adjustment interface (the following figure)

Click "Tools" button



- Click the top and bottom end of the function icon on the "image adjustment area" to adjust (brightness, contrast, color, sharpness) values. To preserve the adjusted values, please click the "Customize" and then exit the picture adjustment interface
- Click the button in the interface, the system can be used to set "standard, customize, brightness, soft, sharpness," to see

Operating instruction Troubleshooting

If this system appears anomalies, and for your using, do not delay too much time, you can make self-examination, and testing, before repair, it may resolve the problems so that the use of the system back to normal using operation.

Problem	Possible Cause	Countermeasure
Click the touch screen can not display DVD navigation mode	The system in reversing state or system not running	Reset hole inserted with a toothpick and press the reset button or put the car in parking stalls.
	Loose cable	Check the terminal connection cable
	Level voltage is too low, system automatic protection	To charge battery to 12V
Reversing photo abnormal	Reversing no image	Check the camera settings is normal or set reverse mode
	Reversing the image intermittently	Check the video signal line and reversing switch line
Navigation signal abnormal	Whether the car is or not in downstairs of high building or shielding	Change area
	Thunderstorms, may be unable to search satellite signals	Re-test later
	Map port settings are incorrect	The port is set to COM2, 9600
	GPS antenna loose	Check GPS antenna is loose or broken
	GPS startup abnormal	Pull key and re-start the car power
Bluetooth telephone abnormal	Match unsuccessful or can not be matched	Some phone models Bluetooth do not compatible with this agreement
	Bluetooth hands-free does not work and can not normal match	Re-match or clear the match before
	The other party can not hear sounds or sounds abnormal	Check the Bluetooth microphone placement is or not correct or that the cable is loose
	Bluetooth screen can not be displayed when reversing	System normal settings requirements , in order to protect the reversing safety

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Operating instruction

Troubleshooting

Problem	Possible Cause	Countermeasure
Digital TV signal abnormal	The car whether in downstairs of the high building or shielding	Change area
	Local area digital TV signal is weak or no	Change area
	DigitalTV antenna loose	Check digital TV antenna
	Digital TV module startup abnormal	Pull key and restart the power
Touch screen does not work	Touch position offset	Re-calibrate the touch screen (see System Settings)
	Touch screen connection cable loose	Check connection cable
External screen display abnormal	External screen broken	Check whether the external display is ok
	Connection cable loose	Check connection cable
The disc can not play or photo and sound abnormal	Disc is not properly placed	Place disc again
	Disc is dirty or damaged or malformed	Replace disc

Note: If you follow the above method still can not solve, please contact with your local service center. Do not attempt to overhaul the machine.

Map configuration

When the map software does not match with the system, it will cause the running and operation abnormal, please configure the correct mapping software according to the following requirements .

Form factor	PND
Operating system (OS type and languages supported)	Microsoft Windows CE 6.0
Processor	SiRF，AT840 533MHZ
Screen (dimensions in pixels, colors)	480*234, 16bit （XC60 800X480 16bit ）
Memory (internal memory, storage)	128M/64M Nand Flash; 128M/64M SDRAM; SD Card (support 256M/512M/1G/2G/4G_HC)
Hardware buttons (describe hardware buttons and their expected functions within Navigate 7, include API and technical documentation)	**No** buttons
Pinyin IME 2.0 (for the Chinese market, the device should have a ROM with Microsoft Pinyin IME 2.0 included and Pocket IME EXCLUDED)	
Installation path and expected application name	Name navigation application: PND software can be configured Folder to put navigation appl.: PND software can be configured
SDK available	SH_108_SDK.msi
SD Name	StorageCard
How to access GPS serial data	COM2, Baud Rate : 9600,

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Operating instruction

Panel function instruction

Panel function instruction

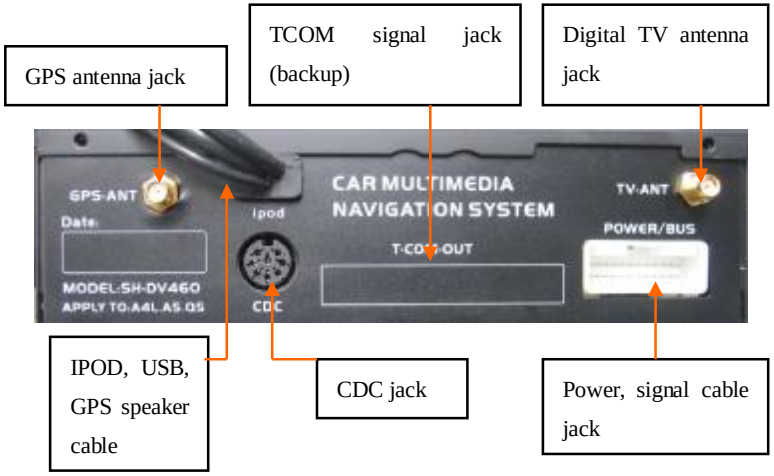
Installation effect map

Tip: When to operate the multimedia navigation system does not work, use toothpick inserted "Reset hole" to reset

Operating instruction

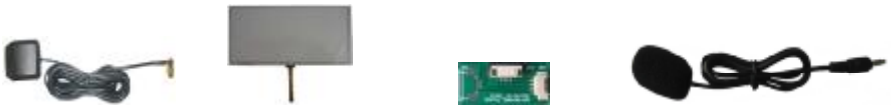
Panel function instruction

Rear panel interface specification



Wiring instructions

Power/signal cable　Digital TV antenna　GPS speaker



GPS antenna　Touch screen　Touch screen adapter board　Bluetooth microphone

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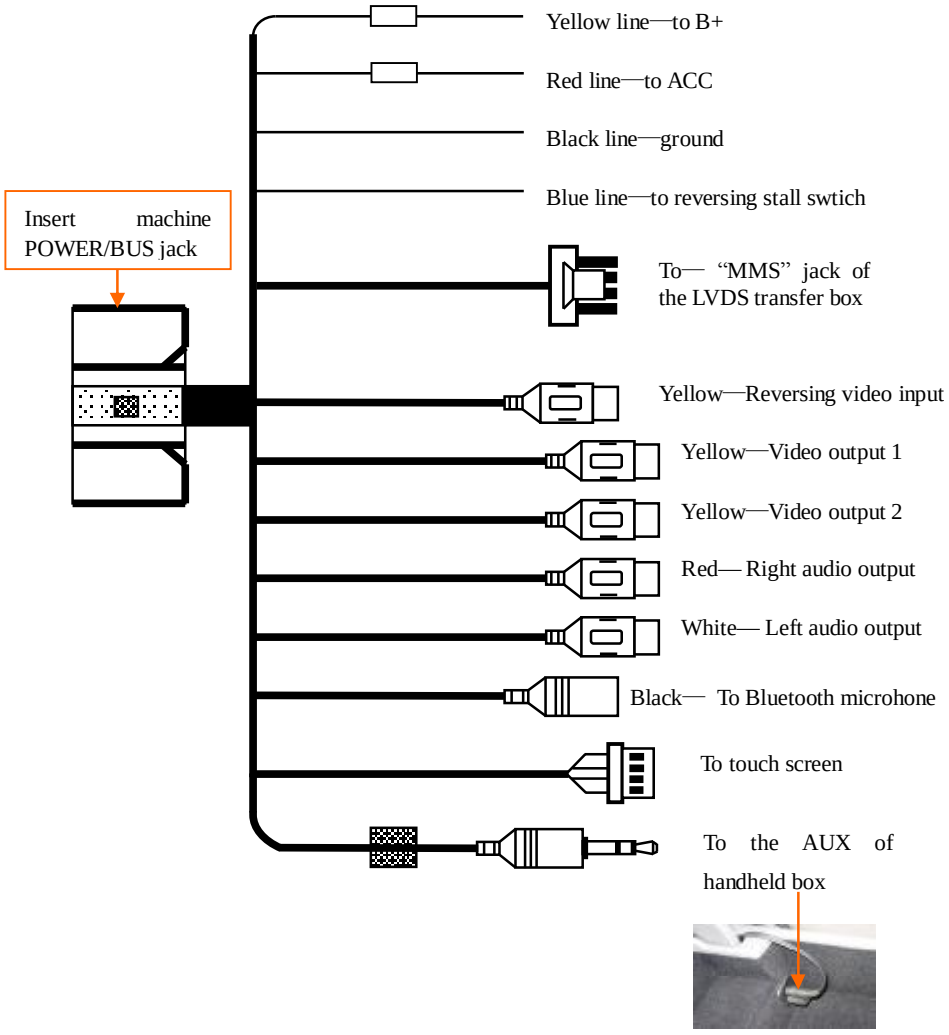
Connection instruction

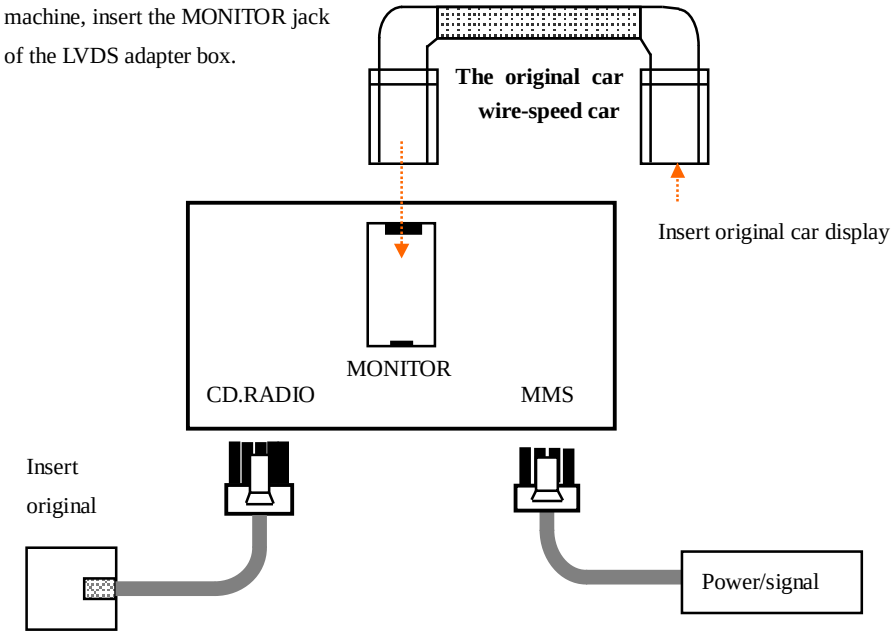
Power cable terminal instruction



Wiring instruction

LVDS adapter box instruction

Pull out from the original car CD machine, insert the MONITOR jack of the LVDS adapter box.



Note: Other connections please follow the cable label and schematic to connect.

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Connection instruction

Rear panel interface specification

TFT Screen

Screen back

Assembly Parts

GPS speaker

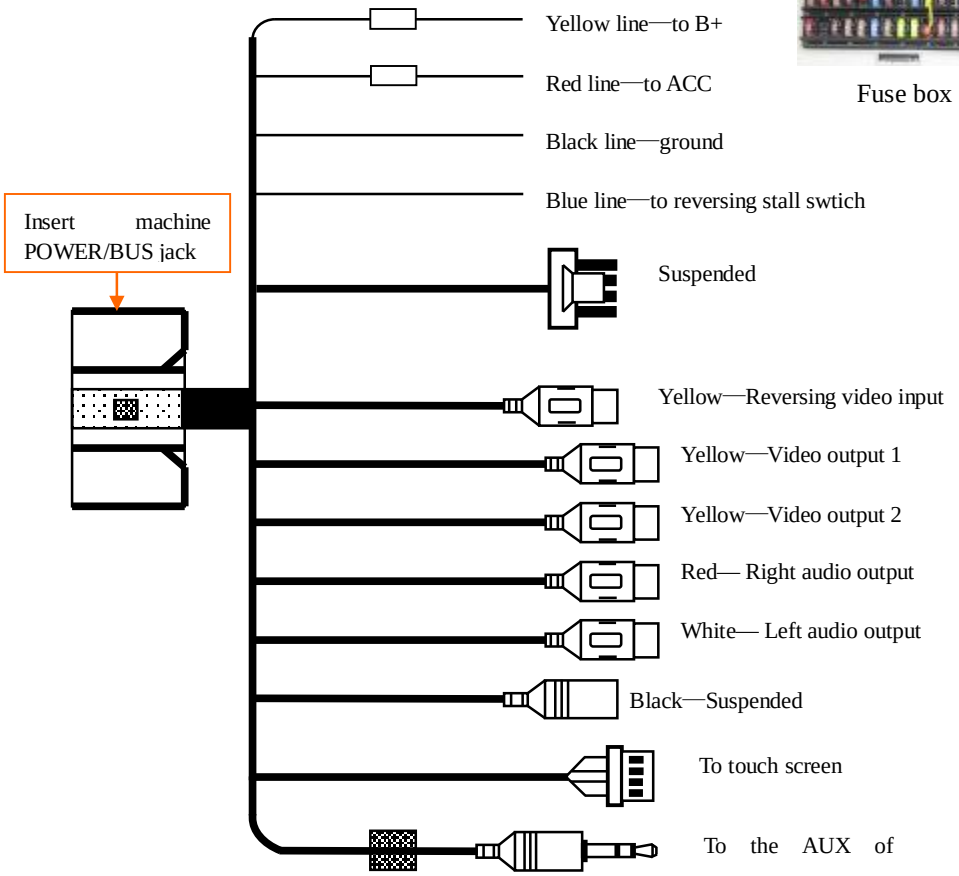
GPS antenna

Multimedia System for VOLVO

Connection instruction

Power cable terminal instruction

Fuse box



Note: Please follow the cable label and schematic to connect.

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